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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/666,390	09/19/2003	. Paul T. Artman	016295.1437	7502
7590 06/02/2004			EXAMINER	
Roger Fulghum			FLANIGAN, ALLEN J	
Baker Botts L.L.P. One Shell Plaza			ART UNIT	PAPER NUMBER
910 Louisiana Street			3753	
Houston, TX 77002-4995			DATE MAILED: 04/03/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

			1/1//
	Application No.	Applicant(s)	M /
Office Action Comments	10/666,390	ARTMAN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Allen J. Flanigan	3753	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with	the correspondence addres	S
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR of after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a recommendation of the period for reply is specified above, the maximum statutory perions are to reply within the set or extended period for reply will, by state than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a reply eply within the statutory minimum of thirty (3 Id will apply and will expire SIX (6) MONTH ute, cause the application to become ABAN	y be timely filed 10) days will be considered timely. S from the mailing date of this commur DONED (35 U.S.C. § 133).	nication.
Status			
1) Responsive to communication(s) filed on			
	is action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under	,	·	rits is
Disposition of Claims			
4) ☐ Claim(s) 1-17 is/are pending in the application 4a) Of the above claim(s) is/are withdreds 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-17 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Examin			
10)☐ The drawing(s) filed on is/are: a)☐ ad			
Applicant may not request that any objection to the	•	` '	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the I	, ,,,	•	
	Examiner. Note the attached C	mice Action of John PTO-18	02.
Priority under 35 U.S.C. § 119			
a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the priority documents. * See the attached detailed Office action for a list	nts have been received. nts have been received in App iority documents have been re au (PCT Rule 17.2(a)).	lication No ceived in this National Stag	e
Attachment(s)			
Notice of References Cited (PTO-892)	4) Interview Sum	mary (PTO-413) Iail Date	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 		mal Patent Application (PTO-152)	

Claims 6-17 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: No relationship is specified between the claimed "processor" and "memory" and the "active heat sink". Is the sink used to cool either or both of the recited components?

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3, 5-8, and 10-17are rejected under 35 U.S.C. 102(b) as being anticipated by Dodson.

Either of fans 110L, 110R reads on the "fan positioned between the first and second set of fins" (70F, 70R of Dodson). Regarding claim5, note that shrouds 124 of Dodson clearly do not extend about that portion of the fan

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adjacent the fins, such that no fan guard is positioned between the fan blades and the fins (Figs. 2, 4). Regarding the claimed metal construction, see lines 38-41 of column 3 of Dodson.

Regarding claims 5 and 11 and their dependents, it is believed that the disclosure that the heat sink of Dodson is intended to be used with, and shown attached to, a computer processor inherently brings the recited "memory" within the disclosure of Dodson, because a memory of some type is a universal component of computers.

Claims 1, 2, 4, 5-7, 9-13, 15, and 17 are rejected under 35 U.S.C. 102(e) as being anticipated by Lofland et al.

Lofland et al. show two sets of fins associated with pairs of heat pipe extensions 30, between which is disposed a fan lacking a guard device. Note that they extend from base 20, to which heat pipes are attached.

As above regarding Dodson, it is believed that the recitation in Lofland et al. of a "processor" is sufficient to inherently include a memory of some kind in the disclosure, since this is a universal component in computers employing processors of the type cooled using the disclosed heat sink.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5-8 and 10-17are rejected under 35 U.S.C. 103(a) as being unpatentable over Dodson.

Claims 5-7, 9-13, 15, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lofland et al.

Assuming arguendo that neither Dodson nor Lofland et al. can be considered to inherently disclose the use of a memory in combination with the processor being cooled by their heat sinks, it would have been obvious to one of ordinary skill in the art at the time the instant invention was made to use memory in a device employing such processors since, as noted above, memory is an ubiquitous if not universal component in computers and a wide array of electronic components.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The remaining references show various finned heat sink/fan combinations.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen J. Flanigan whose telephone number is (703) 308-1015. The examiner can normally be reached on M-F 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Scherbel can be reached on (703) 308-1272. The

fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Allen J. Flanigan

Primary Examiner

Art Unit 3753

AJF